Microsom Buttand and

ŞEPA

POTENTIAL HAZARDOUS WASTE SITE FINAL STRATEGY DETERMINATION

TIL MOT 3000/0303

File this form in the regional Hazardous Waste Log File and submit a copy to: U.S. Environmental Protection Agency; Site Tracking System; Hazardous Waste Enforcement Task Force (EN-335); 401 M St., SW; Washington, DC 20460.

	I. SITE IDENT						
A. SITE NAME Missouri Portland Cer	uent	940:	3 River	View d	Prive		
St. Louis		D. STATE	souri		E. ZI	6313	7
	II. FINAL DETE						
Indicate the recommended action(s) and agency(ie	s) that should be i	involved by m	arking 'X' i	n the appro			
RECOMMENDATION				/	ACTION		PRIVATE
	-		MARK'X'	EPA	STATE	LOCAL	PRIVATE
A. NO ACTION NEEDED				X			
B. REMEDIAL ACTION NEEDED, BUT NO RESOURCE (If yes, complete Section III.)	ES AVAILABLE						
C. REMEDIAL ACTION (II yes, complete Section IV.)							
D. ENFORCEMENT ACTION (If yes, specify in Part E managed by the EPA or the State and what type of e	whether the case w nforcement action is	ill be primarily anticipated.)					
Material disposed at the kiln dust and used we chromium. The wash results of past sang of concern was non-							
F. IF A CASE DEVELOPMENT PLAN HAS BEEN PRETHE DATE PREPARED (mo., day, & yr.)	EPARED, SPECIFY	G. IF AN EN	LED (mo., da)	CASE HA	SBEENFI	LED, SPEC	iri inc
1. NAME Greg Reesor		10000	ONE NUMBE		3.0	3/21	(90
III. REMEDIAL ACTIONS	TO BE TAKEN W	HEN RESOU	RCES BECO	ME AVAIL	ABLE		
List all remedial actions, such as excavation, re for a list of Key Words for each of the actions to remedy.	be used in the sp	aces below.	as resource Provide an e	estimate o	the appro	oximate co	ructions st of the
A. REMEDIAL ACTION	B. ESTIMA	TED COST		<u>c</u>	REMARK	3	
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	s						
	s	/					
	s /						
	5						
	s						
	s						
	s						
D. TOTAL ESTIMATED COST \$							
EPA Form T2070-5 (10-79)					Continu	o On bove	400-

Continued From Front		IV	REMEDIAL ACTI	nns	/
SHORT TERM/ENERGE	ENCY ACTIONS (O				n or planned to bring the site unde
immediate control, e.g., the actions to be used in	restrict access, pr	ovide alter	nate water supply,	etc. See instructions for	or a list of Key Words for each of
1. ACTION	2. ACTION 3 START DATE (mo,day,&yr) (1	DATE mo,day,&yr)	A. ACTION AGENCY (EPA, State, Private Party)	5. COST	SPECIFY 311 OR OTHER ACTION INDICATE THE MAGNITUDE OF THE WORK REQUIRED.
				s /	
				s /	
				\$	
	i			\$	
				s	Y.
				s	
B. LONG TERM STRATED	GY (On Site and Off	-Site): Lis	st all look term sol	utions, e.g., excavation ons to be used in the sp	, removal, ground water monitoring
1. ACTION		3. ACTION END DATE	ACTION AGENCY	s. cost	6. SPECIFY 311 OR OTHER ACTION INDICATE THE MAGNITUDE OF THE WORK REQUIRED.
		/		s	
		/		s	
		/		s	
				s	
		7		s	
	/			s	
. MANHOURS AND COST	BY ACTION AGE	NCY			
	YACTION AGENCY			2. TOTAL MAN- HOURS FOR REMEDIAL ACTIVITIES	3. TOTAL COST FOR REMEDIAL ACTIVITIES

\$

\$

EPA Form 12070-5 (10-79) REVERSE

. EPA

b. STATE

d. OTHER (Specify):



ecology and environment, inc.

inc.

Site: Va Paulland Con ID #: 1951, 2000,020

Break: 101 Other:

CLOVERLEAF BUILDING 3, 6405 METCALF, OVERLAND PARK, KANSAS 66202, TEL. 913/432-9961

International Specialists in the Environment

MEMORANDUM

TO:

Pete Culver, RPO

THRU:

Philip Dula, AFITOM Som for PD

FROM:

Bob Overfelt, E & E/FIT

DATE:

March 28, 1989

SUBJECT:

Preliminary Assessment II of the Missouri Portland Cement

(St. Louis) Site, St. Louis, Misouri
TDD #F-07-8808-029 PAN #FM00717PA
Site #V31 Project #001
Superfund Contact: Greg Reesor

INTRODUCTION

The Ecology and Environment, Inc., Field Investigationi Team (E & E/FIT) was tasked by the Region VII U.S. Environmental Protection Agency (EPA) to conduct a follow-up Preliminary Assessment (PA-2) of the Missouri Portland Cement site located at 9403 Riverview Drive in St. Louis, Missouri (Figure 1). FIT members Bob Overfelt, team leader, Eric Worsham, and Jim Alldritt conducted a site reconnaissance to assess site conditions, and provide photographic documentation. Field activities were conducted on September 9, 1988.

SITE DESCRIPTION AND BACKGROUND

The Missouri Portland Cement (St. Louis) site is located in an industrial area north of downtown St. Louis and is adjacent to the Mississippi River. The site consists of two disposal areas: a former quarry located northeast of the plant and an open tract of land south of the facility adjacent to the Mississippi River (MDNR 1981) (Figure 1). The geographic coordinates for the quarry are 38° 44′ 19.3"N latitude and 90° 12′ 40.2" W longitude. The coordinates of the open area are 38° 43′ 49.1" N latitude and 90° 12′ 55.4" W longitude (USGS 1974). The two disposal areas cover approximately 30 acres each (MDNR 1981). Material disposed at the site consisted of raw materials, kiln dust, and used refractory brick that contained chromium. Disposal activities were conducted from 1950 through 1980 (EPA 1981).

Missouri Portland Cement (St. Louis) Site Preliminary Assessment II Page 2

According to file information, Missouri Portland Cement submitted a Notification of Hazardous Waste Site to EPA in June 1981. The specific waste at the site was listed as chromium (EPA 1981). No information was provided regarding how the chromium was disposed, or specific concentrations.

In August 1981 the site was listed as a potential hazardous waste site, and a site inspection subsequently was performed by the Missouri Department of Natural Resources (MDNR). According to the inspection report, the potential problem was the used refractory brick which contained unspecified amounts of chromium (MDNR 1981).

The Portland Cement Company collected 12 samples of the refractory brick from the disposal areas, and the samples were submitted to the Randolph and Associates laboratory, Peoria, Illinois, for total metals analysis. The highest chromium level detected was 2.9 milligrams/liter (mg/l) found in a black, HW Jappa type brick. The highest mercury level detected was 0.0002 mg/l, found in a white, APG Jappa type brick. No other metals of concern were found at significant lavels (Madros 1989). These chromium and mercury concentrations are well below the EP toxicity values of 5.0 mg/l for chromium and 0.2 mg/l for mercury (CFR 1986). As a result of this sampling the MDNR final strategy determination submitted on February 2, 1982, stated that no further action at the site was anticipated.

The river-front property was sold to the Fruin-Colnon Corporation in 1979 (Steuch 1989). Fruin-Colnon graded the property and constructed a warehouse on the property. The quarry property was sold to the Metropolitan St. Louis Sewer District in 1984 (Steuch 1989). According to Bernie Rains, Director of Environmental Compliance for the Metropolitan St. Louis Sewer District, the old quarry was being used to dispose of incinerator ash from two wastewater treatment plants, and construction rubble from the district's maintenance operations. Jeff Theerman, Plant Superintendent, described the current quarry landfill operation. The portion of the quarry used to dispose of incinerator ash had a one-foot thick clay liner and an under-drain system designed to collect leachate. Leachate is treated at a wastewater treatment plant. The portion of the quarry now used for disposal of construction debris was used by Missouri Portland Cement. No liner or drain system exists in this area.

FIT RECONNAISSANCE OBSERVATIONS

The FIT conducted a walk-through reconnaissance of the site on September 9, 1988. The two disposal areas in the quarry were observed. The section designated for construction waste is located on the east end

Missouri Portland Cement (St. Louis) Site Preliminary Assessment II Page 3

of the quarry and is elevated approximately 25 feet above the surrounding topography (Photographs 1 and 2). It appeared that only construction debris was present in this area. The lower, and much larger, area to the west is used for the disposal of incinerator ash. The ash area was much more vegetated, and some concrete culverts were stored in this area (Photographs 2, 3, and 4). A reconnaissance of the riverfront property determined that the land had been graded and seeded, and a warehouse had been constructed. No potential problems were noted.

SUMMARY AND CONCLUSIONS

The Missouri Portland Cement (S. Louis) site consists of two disposal areas both located within 2,000 feet of the inactive cement facility. One area is a former quarry and the other is a disposal area located on the Mississippi River. Portland Cement disposed of raw material waste, kiln dust, and used refractory bricks containing chromium. In 1981 a sampling of the bricks determined that chromium levels were well below the EP toxicity limit for this compound. Portland Cement sold the river front property in 1979 to Fruin-Colnon Corporation. The new owner graded the property and constructed a warehouse. The quarry property is owned by the Metropolitan St. Louis Sewer District and is used for disposal of incinerator ash from wastewater treatment plants and construction debris.

Based on the history of the disposal areas, analytical results from previous sampling, and site reconnaissance observations, all materials existing in the old disposal areas are adequately buried and of low environmental significances; and materials currently being disposed are considered to be non-hazardous.

Attachments: Bibliography

Figure 1: Site Location Photographs 1 through 4

EPA Form 2070-12

BIBLIOGRAPHY

- Code of Federal Regulations, 1986, Section 40 part 261.
- EPA Notification of Hazardous Waste Site, June 1981, Robert Hines, Technical Director, Missouri Portland Cement Company.
- Madros, John, February 8, 1989, Telephone Conversation Record, Environmental Specialist, Missouri Department of Natural Resources.
- MDNR 1981, Site Inspection Report, Mike Duvall, Environmental Specialist.
- Rains, Bernie, February 9, 1989 Telephone Conversation Record, Director of Environmental Compliance, Metropolitan St. Louis Sewer District, St. Louis, Missouri.
- Steuch, Hans, February 9, 1989, Telephone Conversation Record, Environmental Engineer, Portland Cement Co., Devenport, Iowa.
- Theerman, Jeff February 9, 1989, Telephone Conversation Record, Plant Manager, Metropolitan St. Louis Sewer District, St. Louis, Missouri.
- U.S. Geological Survey, USGS, 1974 7.5' Series Topographic Map, Granite City, Ill-MO, Quadrangle Washington, D.C.



PREPARED BY: R. OVERFELT

SOURCE: USGS 7.5' GRANITE CITY, IL. QUAD. 1974

EPA

OTENTIAL HAZARDOUS WASTE SITE

PRELIMINARY ASSESSMENT

Updated Form

1. IDENTIFICATION

01 STATE 02 SITE NUMBER
T300010303

	PART	1 - SITE INFO	MATION AND ASS	BESSMENT				
II. SITE NAME AND LOCATION								
01 SITE NAME (Legal, common, or descriptive name of site)				02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER				
Missouri Portland Cement (St. Louis)		9403 Riv	9403 Riverview Drive					
03 CITY			04 STATE	05 ZIP CO	DE 06 COUNTY	07 COUNTY 08 CONG		
St. Louis			МО	63137	St. Louis	CODE DIST		
09 COORDINATES LATITUDE	LONGITU	DE						
38° 44′ 19.2" N	90° 12'	40.2" W						
10 DIRECTIONS TO SITE (Starting	from nea	rest public ro	ad)					
From Riverview Drive turn north to the northeast. The disposal directly south of the cement for				ve. The	quarry disposal area e reached by followi	is the first road ng service road		
III. RESPONSIBLE PARTIES								
01 OWNER (If known) Fruin-Colne			02 STREET	(Busines	s, mailing, resident	ial)		
Metropolitan St. Louis Sewer Di	strict (Quarry propert	y) 2000 Har	pton Rive	rview Dr.			
03 CITY			04 STATE	05 ZIP CO	DE 06 TELEPHONE NUMB	ER		
St. Louis			MO	63139	{314} 869-8300 768-6200			
07 OPERATOR (If known and differ	ent from	owner)	08 STREET	Busines	s, mailing, resident	iel)		
Missouri Portland Cement (1950	- 1980)		9403 Riv	erview Dr	ive			
09 CITY			10 STATE	11 ZIP CO	DE 12 TELEPHONE NUMB	13		
St. Louis			мо	63137	(314) 867-7423			
13 TYPE OF OWNERSHIP (Check one)								
X A. PRIVATE B. FEDE	RAL:			C. ST	ATE D. COUNTY	E. MUNICIPAL		
		(Agency na	me)					
F. OTHER:				G. UN	IKNOWN			
	(Sp	ecify)						
14 OWNER/OPERATOR NOTIFICATION Of LARRA 3001 DATE RECEIVED:				(CERCLA	103 c) DATE RECEIVED	: 6-8-81C. NONE		
IV. CHARACTERIZATION OF POTENTI	AL HAZAR	D				2		
01 ON SITE INSPECTION	ВУ	(Check all the	t apply)					
X YES DATE 09/09/88		A. EPA		TRACTOR	C. STATE D.	OTHER CONTRACTOR		
MO/DAY/YR			and the same of th			ornan continueron		
No		E. LOCAL	HEALTH OFFICE	ALF	. OTHER:			
	con	TRACTOR NAME(S): Ecology an	d Environ	김 왕의 전기를 가게 되었다. 그 그 그리고 있는 그리고 없었다.	ecify)		
02 SITE STATUS (CHECK ONE)			03 YEARS OF OF	ERATION				
X A. ACTIVEB. INACT	IVE _	_c. unknown		1950	Present	UNKNOWN		
				GINNING Y	EAR ENDING YEAR			
04 DESCRIPTION OF SUBSTANCES POS	SIBLY PR	ESENT, KNOWN,	OR ALLEGED					
Waste disposed between 1950-1980 by Missouri Portland Coment include waste raw materials, kiln dust and used refractory brick containing low levels of chromium. Currently, only non-hazardous construction wastes are disposed at the site.								
05 DESCRIPTION OF POTENTIAL HAZA	RD TO EN	VIRONMENT AND/	OR POPULATION					
Twelve samples of used refractory brick were collected from the site and analyzed for heavy metals. The highest level of chromium found was 2.92 mg/l, therefore, the potential bezard to the environment is low.								
V. PRIORITY ASSESSMENT								
01 PRIORITY FOR INSPECTION (Chec	k one.	If high or med	ium is checked	, complet	e Part 2 - Waste Infe	ormation and		
[1] (2								
			C. Low	-	X D. NONE			
(Inspection required (Inspromptly)	Pection	redutted)	(Inspect on ti	is) (No further action nec Complete current dis	position form)		
VI. INFORMATION AVAILABLE FROM								
01 CONTACT	l m	02 OF (Agency	/Organization)			03 TELEPHONE NUMBER		
Greg Reesor		EPA - Superf	und			(913) 236-2856		
04 PERSON RESPONSIBLE FOR ASSESS	MENT	05 AGENCY	06 ORGANIZATI	ON	07 TELEPHONE NUMBER	08 DATE		
Bob Overfelt		FIT	EAE		(913) 432-9961	02/09/89 MO/DAY/YR		

POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT

I. IDENTI	FICATION
01 STATE	OZ SITE NUMBER T300010303

PART 2 - WASTE INFORMATION					T300010303	
II. WASTE ST	ATES, QUANTITIES, AND CH	ARACTERISTICS				
O1 PHYSICAL	STATES 02 W	ASTE QUANTITY AT SI	TE 03 WASTE CHARA	CTERISTICS		
X A. SOLID B. POWDER C. SLUDGE	F. LIQUID G. GAS	sures of waste quan must be independen TONS <u>Unknown</u>	X A. TOXIC	TVEF.	INFECTIOUS	HIGHLY VOLATILE EXPLOSIVE REACTIVE
D. OTHER		IC YARDS	X_D. PERSIST	TENTH.		INCOMPATIBLE
	(Specify)	OF DRUMS			м.	NOT APPLICABLE
III. WASTE T	TPE					
CATEGORY	SUBSTANCE NAME	01 GROSS AMOUNT	02 UNIT OF MEASU	IRE 03 COM	MENTS	
SLU	SLUDGE					XIII SAN
OLW	OILY WASTE					
SOL	SOLVENTS					
PSD	PESTICIDES					
осс	OTHER ORGANIC CHEMICALS					
IOC	INORGANIC CHEMICALS					
ACD	ACIDS					
BAS	BASES					
MES	HEAVY METALS	Unknown		Refrac	tory brick	
IV. HAZARDOU	S SUBSTANCES (See Append		tly cited CAS Numb			
01 CATEGORY	02 SUBSTANCE NAME	03 CAS NUMBER	04 STORAGE/DISPO	SAL METHOD	CONCENTRATION	06 MEASURE OF CONCENTRATION
MES	Chromium	7440473	landfilled refra		2 2	mg/1
MES	Mercury	7439976	landfilled refra		0.0002	mg/1
V. FEEDSTOCK	S (See Appendix for CAS	Numbers				
CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER	CATEGORY	01 FEED	STOCK NAME 0	2 CAS NUMBER
FDS	VI TEEDSTOCK HAME	VI CAS HUNDER	FDS	OI PEEDS	O STOCK NAME 0	CAS NUMBER
FDS			FDS			
			FDS			
FDS						
FDS FDS			FDS			

POTENTIAL HAZARDOUS WASTE SITE

PRELIMINARY ASSESSMENT

ART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENT

I. IDENTIFICATION

1 STATE 02 SITE NUMBER T300010303

II. HAZARDOUS CONDITIONS AND INCIDENTS		
1 X A. GROUNDWATER CONTAMINATION	02 OBSERVED (DATE:) X POTENTIAL _	ALLEGED
POPULATION POTENTIALLY AFFECTED:	04 NARRATIVE DESCRIPTION	
There is a slight potential because the wast- is very shallow and if the waste was mobilize See comments.	e is landfilled and is adjacent to the Mississippi River. ed, it could potentially enter the ground water.	Ground water
1 X B. SURFACE WATER CONTAMINATION	02 OBSERVED (DATE:) X POTENTIAL _	ALLEGED
POPULATION POTENTIALLY AFFECTED:	04 NARRATIVE DESCRIPTION	
Because the site is adjacent to the Mississi water contamination. See comments.	ppi River, if the waste became mobile there is a potential	for surface
1 C. CONTAMINATION OF AIR	02 OBSERVED (DATE:) POTENTIAL _	ALLEGED
3 POPULATION POTENTIALLY AFFECTED:	04 NARRATIVE DESCRIPTION	
None known or reported to date		
1 D. FIRE/EXPLOSIVE CONDITIONS	02 OBSERVED (DATE:) POTENTIAL	ALLEGED
POPULATION POTENTIALLY AFFECTED:	04 NARRATIVE DESCRIPTION	
None known or reported to date		
1 E. DIRECT CONTACT	02 OBSERVED (DATE:) POTENTIAL	ALLEGED
3 POPULATION POTENTIALLY AFFECTED:	04 NARRATIVE DESCRIPTION	
None known or reported to date	02 OBSERVED (DATE:) FOTENTIAL	ALLEGED
F. CONTAMINATION OF SOIL		NDDEGED
3 AREA POTENTIALLY AFFECTED:	04 NARRATIVE DESCRIPTION	
(Acres)		
1G. DRINKING WATER CONTAMINATION	02 OBSERVED (DATE:) POTENTIAL	ALLEGED
3 POPULATION POTENTIALLY AFFECTED:	04 NARRATIVE DESCRIPTION	
None known or reported to date		
1H. WORKER EXPOSURE/INJURY	02 OBSERVED (DATE:) POTENTIAL	ALLEGED
3 WORKERS POTENTIALLY AFFECTED:	04 NARRATIVE DESCRIPTION	
None known or reported to date		
1I. POPULATION EXPOSURE/INJURY	02 OBSERVED (CATE:) POTENTIAL	ALLEGED
3 POPULATION POTENTIALLY AFFECTED:	04 NARRATIVE DESCRIPTION	
None known or reported to date		

EPA

POTENTIAL HAZARDOUS WASTE SITE I. IDENTIFICATION PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS AND INCIDENTS (CONTINUED) EPA II. HAZARDOUS CONDITIONS AND INCIDENTS (CONTINUED) 01 J. DAMAGE TO FLORA 02 OBSERVED (DATE:) POTENTIAL ALLEGED 04 NARRATIVE DESCRIPTION None known or reported to date 01 K. DAMAGE TO FAUNA 02 OBSERVED (DATE: ____) POTENTIAL ALLEGED 04 NARRATIVE DESCRIPTION (Include name(s) of species) None known or reported to date 02 OBSERVED (DATE: ____) ___ POTENTIAL ___ ALLEGED 01 ___L. CONTAMINATION OF FOOD CHAIN 04 NARRATIVE DESCRIPTION None known or reported to date 01 M. UNSTABLE CONTAINMENT OF WASTES 02 OBSERVED (DATE:) POTENTIAL ALLEGED (Spills/runoff/standing liquids/leaking drums) 03 POPULATION POTENTIALLY AFFECTED: 04 NARRATIVE DESCRIPTION None known or reported to date 01 N. DAMAGE TO OFFSITE PROPERTY 02 OBSERVED (DATE:) POTENTIAL 04 NARRATIVE DESCRIPTION None known or reported to date 01 ____O. CONTAMINATION OF SEWERS, 02 OBSERVED (DATE:) POTENTIAL ALLEGED 04 NARRATIVE DESCRIPTION None known or reported to date 01 P. ILLEGAL/UNAUTHORIZED DUMPING 02 OBSERVED (DATE:) POTENTIAL ALLEGED 04 NARRATIVE DESCRIPTION None known or reported to date 05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEGED HAZARDS III. TOTAL POPULATION POTENTIALLY AFFECTED: The only known hazardous waste disposed at this site was chromium in refractory brick. Samples of the brick showed chromium levels to be below RCRA hazardous waste limits. Because the concentrations are low and the mobility is limited when contained in bricks, the potential hazard is low. V. SOURCES OF INFORMATION (Cite specific references. e.g., state files, sample analysis, reports) EPA Superfund files MDNR Superfund files

ECOLOGY & ENVIRONMENT, INC. PHOTOGRAPHIC RECORD

SITE

MISSOURI PORTLAND CEMENT ST. LOUIS, MISSOURI

No.: 1

Subject: Edge of construction waste area.

Photographer :

Bob Overfelt

Witness : Jim Alldritt

Date/Time :

09/09/88 09:30

Direction;

North



No.: 2

Subject:

Construction waste area and concrete culverts.

Photographer :

Bob Overfelt

Witness: Jim Alldritt

Date/ Time :

09/09/88 09:35

Direction:

East



ECOLOGY & ENVIRONMENT, INC.

SITE

MISSOURI PORTLAND CEMENT ST. LOUIS, MISSOURI

No.: 3 Subject :

Incinerator ash area.

Photographer:

Bob Overfelt

Witness.

Jim Alldritt

Date/ Time:

09/09/88 09:40

Direction.

Northwest



No.: 4

Subject:

Incinerator ash area.

Photographer :

Bob Overfelt

Witness :

Jim Alldritt

Date/Time :

09/09/88 09:50

Direction:

West



PAN: FMOQ717 PA TOD: F-07-9808-029 ELEPHONE CONVERSATION RECORD DATE OF CALL hele 8 1989 TIME OF CALL 1430 hrs PERSON CONTACTED John Madros ICT OF CALL Missing Partland Coment TEL

PAN: FMOD \$17.PA F-07-8808-029 07-2 EPHONE CONVERSATION RECORD DATE OF CALL Jul 9 1989 TIME OF CALL 1130 hrs Hans Steuch PERSON CONTACTO Postano Content MOT300010303 2 9,89 DATE

10 0000

PAN: FMO \$217PA TOD: F-07-8808-029 EPHONE CONVERSATION RECORD DATE OF GALL Shell 9 1989 TIME OF GALL 1300 hus

PAN: FMOQ2178A TDD: F-07-8808-029 07-4 EPHONE CONVERSATION RECORD DATE OF CALL Sell 9 1989 TIME OF CALL 13/0 his _ Jeff Theerman COMPANY Metropoliton St. Com. & Seven District TITLE Plant Manney SUBJECT OF CALL March Portland Coment (51/4) TELEPHONE + 314-436-8 7/cm SIGNATUR

- TELEPHONE CONVERSATION RECORD

ATE OF CALL Fiel 10 19	89 TIM	e of Call	1100 hrs	
ERSON CONTACTED	Terry Sche	ihing		
	later Supply		Civil Engineer	
WOJECT OF CALL Location of Intak	t Surface Water er for Stillia's	TELEPHON	€ + <u>3/4-77/</u>	4880
ONVERSATION Scheifus	o stated	that the	enter St To	15-167
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Mississe por River Ky				v.T.
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	SIGNATURE	Lotre t	Markey 10	
	DATE		17	

pege et

PAN: FMO \$717PA TOD: F-87-8808-029 07-6 TELEPHONE CONVERSATION RECORD DATE OF GALL Sel- 10, 1989 TIME OF CALL 1530 has PERSON CONTACTED _ John Howland COMPANY MANR Planning Section Water Pollation Contol TITLE _ Che, f SUBJECT OF CALL USeage of Mississip R TELEPHONE + 314-751-7143

TELEPHONE CONVERSATION RECORD DATE OF CALL 2-13-89 TIME OF CALL 1030 415 DERSON CONTACTED _ Charle Mc Daniel COMPANY Illners American Water Co TITLE Operator DUDJECT OF CALL Water intake on MISSISSIN TELEPHONE + 618-827-0331 CONVERSATION Mr Madariel stated that Manite mo Portune Cont. + 013/89 SIGNATURE _____

PAN; FMO \$717 PA TOD: F-\$7-8808-029 07-7

PAN: FMOX717PA TOD: F-07-8808-029 07-8 ELEPHONE CONVERSATION RECORD DATE OF CALL F-6-13 1989 TIME OF CALL 1035 hrs PERSON CONTACTED COMPANY Mous Anguar Voter Co. Interneton Dist. TITLE Asst. Padation Supt. DUDJECT OF CALL Water Interes on Missing TELEPHONE + 48-874-052 2113/89

\$110: Ma. Portance Coment

Other:



ecology and environment, inc.

CLOVERLEAF BUILDING 3, 6405 METCALF, OVERLAND PARK, KANSAS 66202, TEL. 913/432-9961

International Specialists in the Environment

MEMORANDUM

TO:

Pete Culver, RPO

FROM:

Bob Overfelt, E & E/FIT

THRU:

Philip Dula, AFITOM in fa 12

DATE:

March 28, 1989

SUBJECT:

and HRS Considerations for the Missouri Recommendations

Portland Cement (St. Louis) Site in St. Louis, Missouri

TDD #F-07-8808-029 PAN #FM00717PA Site #V31

Project #001

Superfund Contact: Greg Reesor

To fulfill the requirements for the Preliminary Assessment II (PA-2) of the Missouri Portland Cement (St. Louis) Site in St. Louis, an on-site reconnaissance and photo documentation were conducted by the FIT. Team members Bob Overfelt, team leader, Jim Alldritt, and Eric Worsham, conducted field activities on September 9, 1988.

The site consists of two disposal areas: a former quarry adjacent to the plant and an open tract of land located on the Mississippi River approximately 1/4 mile south of the plant. In June 1981, Missouri Portland Cement filed a Notification of Hazardous Waste Site form with EPA, listing the specific waste on site as chromium. It was determined that the company disposed raw waste materials, kiln dust, and used refractory brick, which contained chromium. Portland Cement collected 12 samples of the bricks and submitted them for total metals analysis. The highest level of chromium detected was 2.9 mg/l. Because the EP toxicity limit for chromium is 5.0 mg/l, the brick is considered to be non-hazardous.

In 1979 the river-front property was sold. The area land was graded and a warehouse was built on the property. The FIT performed a reconnaissance of this area and found that the area had been graded, seeded and a warehouse constructed. No apparent waste was noted. In 1984 the former quarry area was sold to the Metropolitan St. Louis Sewer District. They have installed a clay liner and leachate collection system under the majority of the quarry. This clay-lined area is currently used to dispose incinerator ash from two wastewater treatment

Missouri Portland Cement (St. Louis) Site Recommendations and HRS Considerations Page 2

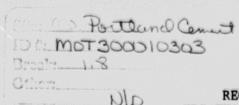
plants. The remaining quarry area which is unlined, is used to dispose construction debris. The FIT reconnaissance of the quarry area confirmed that this area was currently being used only for disposal of incinerator ash and construction debris.

A two-score scenario HRS evaluation was performed, and draft HRS scores were calculated for this site. The preliminary score was calculated to be 3.86. The projected score, which was calculated assuming releases to ground water and surface water, was 9.57. The air route was not scored because the waste is buried and this migration pathway is not believed to be a concern at this site.

Based on the following information, the FIT recommends that no further Superfund action is warranted at this site.

- o The waste is buried;
- Analytical results of past sampling determined that the waste of concern was non-hazardous; and
- The low HRS pre-scores and pro-scores reflect that this site does not pose a significant environmental concern.

FMOG 717PA



REGION VII FIT
HRS EVALUATION WORKSHEET

DRAFT

Site Name: Missouri Portland Cement (St. Louis) City: St. Louis, MO WST #07 8808-029 Site #V31 CERCLIS #MOT300010303

Major Contaminant(s) Chromium

Scoring Scenarios	Preliminary Score	Projected Score
Ground Water Route (Sgw) =	1.99	4.47
Surface Water Route (Sw) =	6.38	15.94
Air Route (Sa)	0.0	0.0
Total Score (Sm)	3.86	9.57

Potential Releases (Probability)

H M L Nill - Ground Water

H M L Nill - Surface Water

H M L Nill - Air

H M L Nill - On-Site/Direct Contact

HRS-2 Comments

Ground Water Route: The site is adjacent to the Mississippi River.
Therefore, ground water is very shallow and there is a slight potential for release. Ground water in the area is not utilized for drinking.
All potable water is supplied by surface water intakes.

Surface Water Route: There is a slight potential for a surface water release because the site is adjacent to the Mississippi River. However, the chromium is contained in refractory brick and is buried. Therefore, the potential for the chromium to mobilize is minimal. Also, the nearest potable surface water intake is located approximately 6 miles downstream.

Air Route There is no potential for the chromium to mobilize via the air route. The material is bound in brick and is buried.

On-Site Route: No potential for on-site exposure due to the fact that the material of concern is buried.

Probability to Score	above 25.0
[] High []	Medium [X] Low
Priority For Further	Work
I High Media	IM I X I NERAP

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Comments

Used refractory brick containing chromium was disposed at this site. Twelve samples were taken of these brick. Analytical results showed chromium levels to be well below the EP Toxicity limit. No other hazardous material is suspected to have been disposed at the site. No further action is recommended.

Date: March 24, 1989